

WOODS HOLE, MARTHA'S VINEYARD AND NANTUCKET STEAMSHIP AUTHORITY

2022 CAPITAL BUDGET

AS OF 01/26/2022

FUNDS TO BE PROVIDED FOR CAPITAL PROJECTS

	AMOUNT AVAILABLE AS OF 01/26/2022	ESTIMATED ADD'L TRANSFERS/DEPOSITS	ESTIMATED AMOUNT NEEDED TO COMPLETE CURRENT AUTHORIZED CAPITAL PROJECTS (FROM PAGE 2)	AMOUNT FOR PROPOSED NEW CAPITAL PROJECTS (FROM PAGE 3)	REMAINING AMOUNT FOR CONTINGENCIES AND / OR FUTURE PROJECTS
<u>FUNDS TO BE PROVIDED:</u>					
Replacement Fund	\$ 13,952,152 ①	\$ 11,950,000 ③	\$ 15,070,141	\$ 7,848,000	\$ 2,984,011
Bond Redemption Account	1,439,482	- ④	-	-	\$ 1,439,482
Capital Improvement Fund	20,765 ②	- ⑤	-	-	\$ 20,765
TOTAL FUNDS TO BE PROVIDED	\$ 15,412,399	\$ 11,950,000	\$ 15,070,141	\$ 7,848,000	\$ 4,444,258

- ① Net of current commitments or accruals to be paid from the Replacement Fund.
- ② Net of current commitments or accruals to be paid from the Capital Improvement Fund.
- ③ Additional transfers consist of \$11,950,000 which is expected to be transferred to the Replacement Fund during 2022. (Per Budget)
- ④ Additional transfers include some \$0 which is expected to be transferred to the Bond Redemption Account during 2022. (Per Budget)
- ⑤ Additional deposit of \$0 from sale of bonds or bond anticipation notes which is expected to be received during 2022.

	BOND AUTHORIZATION FOR FUTURE PROJECTS - AS OF 01/26/2022	BOND PRINCIPAL PAYMENT DUE 03/01/2022	BOND / NOTE ISSUE	BOND AUTHORIZATION FOR FUTURE PROJECTS - AS OF 03/01/2022
<u>AVAILABLE BOND AUTHORIZATION:</u>				
Current Authorization	\$ 100,000,000			\$ 100,000,000
Bonds Outstanding	73,155,000	7,245,000	-	65,910,000
Bond or Bond Anticipation Notes	-	-	-	-
TOTAL AVAILABLE BOND AUTHORIZATION	\$ 26,845,000	\$ (7,245,000)	\$ -	\$ 34,090,000

ESTIMATED AMOUNT NEEDED TO COMPLETE CURRENT CAPITAL PROJECTS AS OF 01/26/2022

Project Title	Est. Cost	Amount Paid to Date	Est. Cost to Complete
WH Terminal and Slips Design and Engineering	\$ 12,675,283	\$ 10,917,375	\$ 1,757,908
Woods Hole Terminal - Marine Construction Phase 4 Spring - Fall (2021) -Winter (2022)	21,025,569	17,454,385	3,571,184
Woods Hole Terminal & Utility Buildings - Phase 5 (2022)	3,911,483	0	3,911,483
Website Design and Mobile Application (2021)	2,250,000	64,863	2,185,137
Fire Suppression System - M/V Eagle (2021)	200,000	78,211	121,789
Fire Suppression System - M/V Martha's Vineyard (2021)	200,000	17,486	182,514
Vessel Replacement Study (2021)	100,000	7,500	92,500
Personal Computer Replacements (2021)	75,000	51,860	23,140
Fairhaven Slip Dredge (2020)	50,000	48,265	1,735
Shuttle Bus Replacements (3) (2021)	2,950,000	0	2,950,000
Miscellaneous Projects less than \$50,000	295,000	22,249	272,751
TOTAL	<u>\$ 43,732,335</u>	<u>\$ 28,662,194</u>	<u>\$ 15,070,141</u>
Contingent upon obtaining additional funding in 2022 through State and/or Federal Grants			
New Falmouth Maintenance Shop Engineering & Construction (2021)	4,500,000	202,003	4,297,997

PROPOSED NEW CAPITAL PROJECTS - 2022

<u>PROJECT TITLE</u>	<u>ESTIMATED COST</u>
<u>PROPOSED CAPITAL PROJECTS TO BE PAID FROM THE REPLACEMENT FUND:</u>	
Design & Engineering Service Side Loading M/V Woods Hole	\$ 100,000
Primary Storage System Replacement	\$ 88,000
Web Farm Primary Firewall Replacements	\$ 75,000
Mashpee Disaster Recovery Update	\$ 65,000
Mashpee Virtualization - Replace desktops	\$ 50,000
Vessel Laptop Upgrade to support SQMS	\$ 42,000
Personal Computer Replacements	\$ 75,000
Ticket Scanners and RFID Readers	\$ 250,000
Installation of Fire Detection Systems	\$ 325,000
Installation of Digital Gyro Systems	\$ 100,000
Installation of New Radar Systems	\$ 400,000
Spare MTU Engine - M/V Woods Hole	\$ 500,000
Spare MTU Engine - M/V Iyanough	\$ 850,000
Shuttle Bus Replacements (4) Electric	\$ 4,100,000
Shuttle Van Replacements - Woods Hole	\$ 98,000
Shuttle Van Replacements - Hyannis	\$ 98,000
Luggage Tow Motor Replacements	\$ 232,000
Misc. Projects (less than \$50,000 each)	\$ 400,000
Total	\$ 7,848,000

Contingent upon obtaining additional funding in 2022 through State and/or Federal Grants and transfers to the Replacement Fund or the issuance of additional bonds or notes

New Maintenance Shop Building - Falmouth Maintenance Facility site	\$	-
Total	\$	-

CAPITAL IMPROVEMENT PLAN 2022 - 2032

PROJECT TITLE	Proposed 2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
2 Shuttle Bus Replacements (Electric) - Woods Hole & Hyannis	\$ -	\$ 2,100,000	\$ 2,205,000	\$ 2,317,500	\$ 2,435,000	\$ 2,557,500	\$ 2,687,500	\$ 2,822,500	\$ 2,965,000	\$ 3,115,000	\$ 3,272,500	\$ 26,477,500
Motor Vehicle Replacements		100,000	105,000	111,000	117,000	123,000	130,000	137,000	144,000	152,000	160,000	1,279,000
Information Technologies Equipment		500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
												-
Proposed Projects												-
Design & Engineering Service Side Loading M/V Woods Hole	100,000											100,000
Primary Storage System Replacement	88,000											88,000
Web Farm Primary Firewall Replacements	75,000											75,000
Mashpee Disaster Recovery Update	65,000											65,000
Mashpee Virtualization - Replace desktops	50,000											50,000
Vessel Laptop Upgrade to support SQMS	42,000											42,000
Personal Computer Replacements	75,000											75,000
Ticket Scanners and RFID Readers	250,000											250,000
Installation of Fire Detection Systems	325,000											325,000
Installation of Digital Gyro Systems	100,000											100,000
Installation of New Radar Systems	400,000											400,000
Spare MTU Engine - M/V Woods Hole	500,000											500,000
Spare MTU Engine - M/V Iyanough	850,000											850,000
Shuttle Bus Replacements (4) Electric	4,100,000											4,100,000
Shuttle Van Replacements - Woods Hole	98,000											98,000
Shuttle Van Replacements - Hyannis	98,000											98,000
Luggage Tow Motor Replacements	232,000											232,000
												-
Woods Hole Ticket Office & Freight Shed - Construction												-
Phase 5 - Fall (2022)	-											-
Phase 6 - Winter-Fall (2023)	-	9,500,000										9,500,000
Phase 7 - Winter-Fall (2024)	-		9,500,000									9,500,000
Phase 8 - Winter-Fall (2025)	-			9,500,000								9,500,000
												-
Nantucket Terminal Feasibility Study					500,000							500,000
												-
Vessel Replacement - Design and Engineering					500,000							500,000
Vessel Replacement - Construction		45,000,000				50,000,000						95,000,000
												-
Misc. Projects (\$50,000 or less)	400,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,900,000
	-											-
												-
Conditional Projects from Page 3	-	-										-
												-
TOTAL	7,848,000	57,450,000	12,560,000	12,678,500	4,302,000	53,430,500	3,567,500	3,709,500	3,859,000	4,017,000	4,182,500	167,604,500
FUNDS TO BE PROVIDED (ESTIMATE):												
Amounts Available as of 12/31/2021	15,412,399											15,412,399
Issuance of Bonds / Notes	-	40,000,000				50,000,000						90,000,000
Est. Additional Transfers to the Replacement Fund	11,950,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	136,950,000
Est. Transfers to the Bond Redemption Account from Revenue	-											-
Needed to Complete Current Projects	(15,070,141)											(15,070,141)
Sale of Surplus Property	-											-
Federal and / or Commonwealth Grants	1,640,000	2,750,000	1,500,000	1,500,000	1,500,000	1,500,000						10,390,000
TOTAL FUNDS TO BE PROVIDED (ESTIMATE)	13,932,258	55,250,000	14,000,000	14,000,000	14,000,000	64,000,000	12,500,000	12,500,000	12,500,000	12,500,000	12,500,000	237,682,258
(Decrease) / Increase in Funds		(2,200,000)	1,440,000	1,321,500	9,698,000	10,569,500	8,932,500	8,790,500	8,641,000	8,483,000	8,317,500	
ESTIMATED NET FUNDS AVAILABLE	6,084,258	3,884,258	5,324,258	6,645,758	16,343,758	26,913,258	35,845,758	44,636,258	53,277,258	61,760,258	70,077,758	
AVAILABLE BOND AUTHORIZATION (Current)												
Current Authorization	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000
Outstanding Bonds / Notes -	73,155,000	65,910,000	98,230,000	86,465,000	74,085,000	61,070,000	97,230,000	80,295,000	62,600,000	49,400,000	35,740,000	73,155,000
Issuance of New Bonds / Notes	-	40,000,000	-	-	-	50,000,000	-	-	-	-	-	90,000,000
Retirement of Outstanding Bonds	(7,245,000)	(7,680,000)	(8,125,000)	(8,560,000)	(8,995,000)	(9,640,000)	(7,965,000)	(8,300,000)	(3,315,000)	(3,330,000)	-	(73,155,000)
Retirement of New Bonds	-	-	(3,640,000)	(3,820,000)	(4,020,000)	(4,200,000)	(8,970,000)	(9,395,000)	(9,885,000)	(10,330,000)	(10,865,000)	(65,125,000)
Outstanding Bonds / Notes - End of Year	65,910,000	98,230,000	86,465,000	74,085,000	61,070,000	97,230,000	80,295,000	62,600,000	49,400,000	35,740,000	24,875,000	24,875,000
REMAINING BOND AUTHORIZATION	34,090,000	1,770,000	13,535,000	25,915,000	38,930,000	2,770,000	19,705,000	37,400,000	50,600,000	64,260,000	75,125,000	75,125,000

The above schedule makes no prediction as to the possibility of receiving additional Federal or Commonwealth grants. The lack of any such grants may necessitate that several projects in capital improvement plan years 2022 thru 2032 to be deferred in order to stay within the Steamship Authority's current bond authorization limit of \$100,000,000.

2022 Capital Expenditure Project Requests

Project #	Project Priority	Project Title	Classification	Proposed Project Cost	Impact of Denial (Summary)
ACCT-2022 - CAP-01	1			\$ -	
				<u>\$ -</u>	
COMM-2022 - CAP-01	1			\$ -	
				<u>\$ -</u>	
GM-2022 - CAP-01	1	Design & Engineering Service Side Loading M/V Woods Hole		\$ 100,000	Access safety, potential delays in turn-around times
				<u>\$ 100,000</u>	
MIS-2022 - CAP-01	1	Primary Storage System Replacement	Essential	\$ 88,000	Potential for extended downtime, data loss & performance degradation
MIS-2022 - CAP-02	2	Web Farm Primary Firewall Replacements	Essential	75,000	Potential for breach, down-time and data loss
MIS-2022 - CAP-03	3	Mashpee Disaster Recovery Update	Essential	65,000	Potential for data loss
MIS-2022 - CAP-04	4	Mashpee Virtualization - Replace desktops	Essential	50,000	20-25 PC will need to be replaced
MIS-2022 - CAP-05	5	Vessel Laptop Upgrade to support SQMS	Essential	42,000	SQMS requirements will not be met
MIS-2022 - CAP-06	6	Personal Computer Replacements	Essential	75,000	Annual replacement program
MIS-2022 - CAP-07	7	Ticket Scanners and RFID Readers	Desirable	250,000	Failing units to to weather
				<u>\$ 645,000</u>	
MO-2022 - CAP-01	1	Installation of Fire Detection Systems		\$ 325,000	Timeliness of alerts to fire
MO-2022 - CAP-02	2	Installation of Digital Gyro Systems		100,000	Subject to failure due to age
MO-2022 - CAP-03	3	Installation of New Radar Systems		400,000	Subject to failure due to age
MO-2022 - CAP-04	4	Purchase MTU Engine - M/V Woods Hole		500,000	
MO-2022 - CAP-05	5	Purchase MTU Engine - M/V Iyanough		850,000	
				<u>\$ 2,175,000</u>	
SO-2022 - CAP-01	1	Shuttle Bus Replacements (4) Electric	Essential	\$ 4,100,000	Customer Service will suffer as more bus breakdown. Grants awarded for this project.
SO-2022 - CAP-02	2	Shuttle Van Replacements - Woods Hole	Essential	98,000	Customer service will suffer; more bus breakdowns due to age & mileage.
SO-2022 - CAP-03	3	Shuttle Van Replacements - Hyannis	Essential	98,000	Customer service will suffer; more bus breakdowns due to age & mileage.
SO-2022 - CAP-04	4	Luggage Tow Motor Replacements	Essential	232,000	Customer service will suffer;
				<u>\$ 4,528,000</u>	
		Miscellaneous Projects (less than \$50,000 each)		\$ 400,000	
				<u>\$ 400,000</u>	
				<u>\$ 7,848,000</u>	

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
General Manager Department

Project Number: GM-2022-CAP-01

Project Priority: Essential

Project Title: Design and Engineering Services for side loading on the M/V Woods Hole

Year: 2022

Project Description: Design and engineering services to allow side loading on the M/V Woods Hole 02 deck. This will create a new passenger loading area similar to what is on the M/V Eagle, M/V Island Home, M/V Martha's Vineyard and M/V Nantucket.

Justification / ROI: The addition of new side loading will allow for a more efficient operation allow passengers and vehicles to embark and disembark from the vessel at the same time. It will also make it easier for customers who are carry items, such as luggage, to travel on and off the vessel.

Impact of Denial: Potential delays in turnaround times during the loading and unloading process at the dock.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other/Purchase</i>	<i>Construction</i>
<i>Dollars</i>		\$100,000	\$	\$

Total Project Cost: \$100,000

Approvals:

Submitted By: _____ Date: _____

Approved By: _____ Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-01

Project Priority: Highest

Project Title: Primary Storage System Replacement

Year: 2022

Classification:

Project Description:

The current primary storage system is at it's end of life. The current system services over forty-five production machines. The data stored on the storage system include multiple databases, application, and user files.

Justification / ROI:

Replacement of the existing end of life storage is essential to insure up-time, performance for critical business processes and IT infrastructure processes. Support and hardware replacement will no longer be available.

Impact of Denial:

Potential for extend downtime, data loss and performance degradation.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$88,000	\$
<i>Time</i>				

Total Project Cost: \$88,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-02

Project Priority: Highest

Project Title: Web Farm Primary Firewalls Replacement

Year: 2022

Classification:

Project Description:

The primary firewalls for the public web farm is at end of life. New firewalls will need to be purchased.

Justification / ROI:

Replacement of the existing end of life firewalls is essential to ensure maximum security, up-time, and performance. The public web sites provide customers with information and multiple self-service reservation options. The existing firewalls are not able to support the latest operation code versions.

Impact of Denial:

Potential for a breach, down-time and data loss exist.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$75,000	\$
<i>Time</i>				

Total Project Cost: \$75,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-03

Project Priority: High

Project Title: Mashpee Disaster Recovery Update - Virtualization

Year: 2022

Classification:

Project Description:

This project provides additional disaster recovery functions in Mashpee including the accounting application and database, point-of-sale database, primary database server, out-going email servers and user file storage via virtualization and additionally recovery manager software.

Justification / ROI:

This project will provide multiple options to allow access to disaster recovery systems if needed. The project adds improved recovery time and enables zero downtime and zero data loss capabilities.

Impact of Denial:

Potential exists for data lost because of failures between backups.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>	\$		\$65,000	\$
<i>Time</i>				

Total Project Cost: \$65,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-04

Project Priority: Medium

Project Title: Mashpee - Virtualization - Replace desktops

Year: 2022

Classification:

Project Description:

This project requires MIS2022-03. This add-on project replaces the reservation clerk's personal computers with a device "thin client" that has been optimized to allow the server instead of the personal computer to do most of the work.

Justification / ROI:

This project standardizes the hardware configuration for the reservation clerks. This will provide easier management, enhanced security, reduced carbon footprint and additional cost savings.

Impact of Denial:

Approximately 20-25 personal computers will have to be replaced within the next year.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$50,000	\$
<i>Time</i>				

Total Project Cost: \$50,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-05

Project Priority: High

Project Title: Vessel Laptops - Upgrade to support SMS

Year: 2022

Classification:

Project Description:

This project upgrades five existing laptops deployed during 2021 to the vessels and purchase an additional sixteen laptops.

Justification / ROI:

This upgrade and purchase will allow vessel personnel to enter and maintain work orders while on the vessels.

Impact of Denial:

SMS requirements will not be met.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$42,000	\$
<i>Time</i>				

Total Project Cost: \$42,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-06

Project Priority: High

Project Title: PC Replacements

Year: 2022

Classification:

Project Description:

PC/Laptop purchases for 2022.

Justification / ROI:

This project will be used to purchase and upgrade laptops and computers for 2022.

Impact of Denial:

Purchases will be done as needed.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$75,000	\$
<i>Time</i>				

Total Project Cost: \$75,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
MIS Department

Project Number: MIS2022-07

Project Priority: High

Project Title: Terminal Ticket Scanners Replacement

Year: 2022

Classification:

Project Description: Replacement of 50 ticket scanners and RFID readers at each terminal.

Justification / ROI:

This project will be used to purchase and replace the terminal ticket scanners in 2022. Existing units are 5 years old and subject to weather related wear.

Impact of Denial:

Ticket scanners at the terminals are starting to fail and repairs to devices will be done as needed.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$250,000	\$
<i>Time</i>				

Total Project Cost: \$250,000

Approvals:

Submitted By: Curt Van Riper

Date: 01-11-2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
Marine Operations Department

Project Number: MO-2022-CAP-01

Project Priority: 01

Project Title: Installation of Fire Detection Systems

Year: 2022

Classification: Essential

Project Description: Installation of Fire Detection Systems on the M/V Katama and M/V Nantucket.

Justification / ROI:

The crews sleep at night with no Fire Detection Equipment to alert the crew in the event of fire. While there are local Fire Detection Alarms outside the rooms and in the hallways, there are no alerts in the event of a fire in the unmanned areas of the vessel during evening hours such as the engine room.

Impact of Denial:

In the event of a fire, crews are un-protected while they are sleeping at night.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$325,000	\$
<i>Time</i>				

Total Project Cost: \$ 325,000

Approvals:

Submitted By: Mark Amundsen

Date: 10 January 2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
Marine Operations Department

Project Number: MO-2022-CAP-02

Project Priority: 02

Project Title: Installation of Digital Gyro Systems

Year: 2022

Classification: Essential

Project Description: Installation of New Digital Gyro Systems on the fleet.

Justification / ROI: A Gyro, or gyro compass, on ships employs an electrically powered, fast-spinning wheel and frictional forces among other factors to find the true north. Seeking commonality in the fleet.

Impact of Denial: Existing systems subject to failure due to age.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$100,000	\$
<i>Time</i>				

Total Project Cost: \$ 100,000 (\$10,000 per unit)

Approvals:

Submitted By: Mark Amundsen Date: 10 January 2022

Approved By: _____ Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
Marine Operations Department

Project Number: MO-2022-CAP-03

Project Priority: 03

Project Title: Installation of New Radar Systems

Year: 2022

Classification: Essential

Project Description: Installation of (10) New Radar systems for the M/V Gay Head, M/V Katama, M/V Sankaty, M/V Nantucket and M/V Governor.

Justification / ROI: Updated marine radar is essential to maintain situational awareness while navigating in busy waterways. Seeking commonality in the fleet.

Impact of Denial: Existing systems subject to failure due to age.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$400,000	\$
<i>Time</i>				

Total Project Cost: \$ 400,000 (\$40,000 per unit)

Approvals:

Submitted By: Mark Amundsen Date: 10 January 2022

Approved By: _____ Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
Marine Operations Department

Project Number: MO-2022-CAP-04

Project Priority: 04

Project Title: Purchase of Spare MTU Engine for M/V Woods Hole

Year: 2022

Classification: Desirable

Project Description: Purchase spare MTU engine for M/V Woods Hole.

Justification / ROI: The Steamship Authority presently has no spare main engine. Should a casualty occur, there could be substantial out of service time (3-6 months or longer), to acquire and install a new engine. Having a spare engine in stock would allow the engine to be replaced and the vessel to be back in operation in a 2 week period.

Impact of Denial: In the case of an engine failure, the M/V Woods Hole would be out of service for an extended period of time until either the engine is fixed or a replacement is sourced.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$500,000	\$
<i>Time</i>				

Total Project Cost: \$ 500,000

Approvals:

Submitted By: Mark Amundsen

Date: 26 January 2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
Marine Operations Department

Project Number: MO-2022-CAP-05

Project Priority: 05

Project Title: Purchase of Spare MTU Engine for M/V Iyanough

Year: 2022

Classification: Desirable

Project Description: Purchase spare MTU engine for M/V Iyanough

Justification / ROI: The Steamship Authority presently has one main engine in stock. The purchase of a 2nd engine would greatly enhance the maintenance overhaul procedure. To change an engine, disassembly is required of the vessel superstructure to remove and install the engines. Having 2 engines available would allow immediate change out of 2 engine sets at a time. Presently, we have a risk factor during a normal overhaul period that if a component is found to be damaged, we may not have adequate time to acquire and install the new part and subsequent delay in delivery schedule.

Impact of Denial: In the case of an engine failure, the M/V Iyanough would be out of service for an extended period of time until either the engine is fixed or a replacement is sourced.

<u>Project Cost Estimates:</u>				
	<i>Study</i>	<i>Design</i>	<i>Other</i>	<i>Construction</i>
<i>Dollars</i>		\$	\$850,000	\$
<i>Time</i>				
<i>Total Project Cost:</i>		\$	850,000	

Approvals:

Submitted By: Mark Amundsen

Date: 26 January 2022

Approved By: _____

Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
SHORESIDE OPERATIONS Department

Project Number: SO-2022-CAP01

Project Priority: 01

Project Title: Shuttle Bus Replacements (4) - Woods Hole

Year: 2022

Classification: Essential

Project Description: Purchase of 4 New 40' Electric Low Floor Transit Shuttle Buses

Justification / ROI: This will continue the current replacement plan of the shuttle buses. The Steamship Authority currently owns 24 large shuttle buses (21 passenger and 3 bike buses). The four new buses will be equipped with air conditioning and low floor entry. The purchase of these busses will allow for some of the current older buses to be retired and another bus to be converted to a bike bus.

Impact of Denial: Customer service will suffer as more buses breakdown due to their age and mileage. Lead time of 18-24 months.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Purchase</i>	<i>Construction</i>
<i>Dollars</i>			\$ 4,100,000.00	
<i>Time</i>				

Total Project Cost: \$4,100,000 (\$1,025,000 for each shuttle bus)

Approvals:

Submitted By: Alison Fletcher Date: 11/10/2021

Approved By: _____ Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
SHORESIDE OPERATIONS Department

Project Number: SO-2022-CAP02

Project Priority: 02

Project Title: Shuttle Van Replacement (1) - Hyannis

Year: 2022

Classification: Essential

Project Description: Purchase of 1 New Shuttle Van

Justification / ROI: This will continue the current replacement plan of the shuttle vans. The Steamship Authority currently owns 3 shuttle vans (4 were CNG and no longer relevant knocking the fleet down from 7 to 3). The purchase of these busses will allow for one of the current older vans to be retired.

Impact of Denial: Customer service will suffer as more buses breakdown due to their age and mileage. Lead time of 18-24 months.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Purchase</i>	<i>Construction</i>
<i>Dollars</i>			\$ 98,000.00	
<i>Time</i>				

Total Project Cost: \$98,000

Approvals:

Submitted By: Alison Fletcher Date: 11/10/2021

Approved By: _____ Date: _____

**Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
SHORESIDE OPERATIONS Department**

Project Number: SO-2022-CAP03

Project Priority: 03

Project Title: Shuttle Van Replacement (1) - Woods Hole

Year: 2022

Classification: Essential

Project Description: Purchase of 1 New Shuttle Van

Justification / ROI: This will continue the current replacement plan of the shuttle vans. The Steamship Authority currently owns 3 shuttle vans (4 were CNG and no longer relevant knocking the fleet down from 7 to 3). The purchase of these busses will allow for one of the current older vans to be retired.

Impact of Denial: Customer service will suffer as more buses breakdown due to their age and mileage. Lead time of 18-24 months.

Project Cost Estimates:

	<i>Study</i>	<i>Design</i>	<i>Purchase</i>	<i>Construction</i>
<i>Dollars</i>			\$ 98,000.00	
<i>Time</i>				

Total Project Cost: \$98,000

Approvals:

Submitted By: Alison Fletcher Date: 11/10/2021

Approved By: _____ Date: _____

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority
2022 Capital Expenditure Project Request
SHORESIDE OPERATIONS Department

Project Number: SO-2022-CAP04

Project Priority: 04

Project Title: Luggage Tugs (4)

Year: 2022

Classification: Important

Project Description: Purchase of 4 New Luggage Tugs

Justification / ROI: This will help with maintenance of our fleet's current tugs. The Steamship Authority currently utilizes these tugs to help bring the luggage carts on and off the Authorities vessels. The purchase of these tugs will allow for proper maintenance of our current Tugs and retirement to those that are beyond repair.

Impact of Denial: Due to the current age of our Tugs and the amount of trips they make, any breakdowns could cause hardship on our customers, and clogging up the passenger are of the vessels with luggage.

<u>Project Cost Estimates:</u>	<i>Study</i>	<i>Design</i>	<i>Purchase</i>	<i>Construction</i>
<i>Dollars</i>			\$ 232,000.00	
<i>Time</i>				

Total Project Cost: \$232,000 (\$58,000 for each tug)

Approvals:

Submitted By: Alison Fletcher Date: 11/10/2021

Approved By: _____ Date: _____